



SHA OMT Asphalt Roundtables

SHA Construction History PM-003 Form

March 2016

Mark Chapman and Walter (Bud) Dombroski 443-572-5056

PM-003 Goal



- Provide timely and accurate reporting of SHA pavement related accomplishments and improvements. This includes your assistance to improve feedback for SHA's task to collect, verify, and report data concerning several business plan performance measures for paving, patching, and select maintenance activities.
- This data is included in SHA's Business Plan, KPA, Asset Management, and Highway Inventory efforts.
 Data is also supplied to FHWA for HPMS purposes.



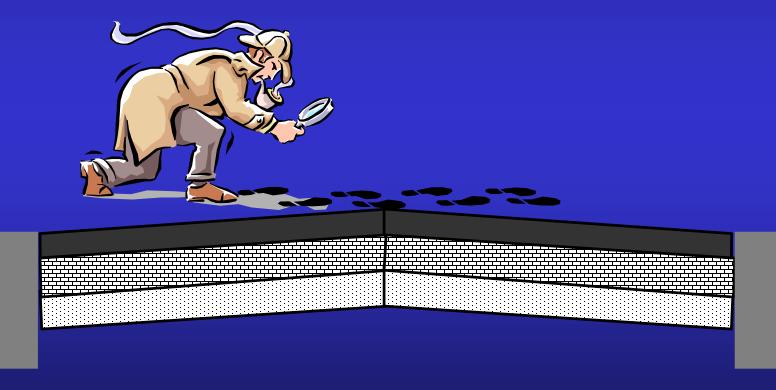
SHA's Construction History Program

- Collect, document, and report "As-Built Pavement Data" for SHA, MDOT and FHWA.
- Pavement Management's Construction History operations
 - Upon paving completion for all paving or patching projects, data collection and processing routines are performed to finalize data and make available to SHA.
 - Critical Data: Contract / FMIS, Location, Paving Dates, Activity Type, Pavement Typical Sections, Asphalt and Concrete Mix Design & Thickness, existing and new lanes, patching, ramp and shoulder info, ride share facilities.



Construction History

Pavement Typical Section





Construction History Report

Layer	Thickness	Description	Туре	Material	Contract	FMIS	Year
16	1.5	Surface	Asphalt	9.5mm, 64-22, Surface, L 2	XY3015177	AL283B52	05/15/2013
15	1	Wedge/Level	Asphalt	9.5mm, 64-22, Wedge/Level, L 2	XY3015177	AL283B52	05/15/2013
14	5	Patching PD	Asphalt	HMA 19.0mm, PG64-22, Patching over 3"	XY3015177	AL283B52	05/15/2013
13	1.5	Milling	Pavement Removal	Carbide Grinding	XY3015177	AL283B52	05/15/2013
12		Patching	Unknown	Permanent Patching -23402	23402	0	08/31/2010
11		Patching	Unknown	Permanent Patching -23402	23402	0	10/30/2009
10	2	Surface	Asphalt	Band SC	AL7975176	0	11/12/1997
9	1	Wedge/Level	Asphalt	Band SF	AL7975176	0	11/12/1997
8	1.5	Surface	Asphalt	Band SN	A -644-501- 677	0	10/04/1979
7	2	Surface	Asphalt	Band BI	A -644-501- 677	0	10/04/1979
6	6	Patching	Asphalt	Patching , BAND BI	A -644-501- 677	0	10/04/1979
5	0.5	Surface	Aggregate Seals	Chip Seal	ED-57-614	0	1966
4	0.5	Surface	Aggregate Seals	Chip Seal	Maintenance	0	1957
3	3	Surface	Asphalt	Penetration Macadam - Bit./ Stone Mix	A -18	0	12/01/1922
2	3	Surface	Aggregate	Gravel	A -18	0	12/01/1922
1	8	Original Surface	Aggregate	Macadam - Stone	County	0	09/01/1908

SHA

As-Built Data Sources

- Plans and Invitation for Bids
- Materials Management System (MMS)
- Maryland Construction Management System (MCMS)
- OOC As-Built Directive (2009 Season start)
- PM-003 Data Collection Form
 - Completed by State Field Project Engineer and / or staff



2009 Implementation

- Construction Directive 07220.500.04 HMA: Prepaving and Pavement Marking Conference
 - ✓ Procedure #4, item aa.
 - ✓ As-Built Pavement Typical Section and other Details upon paving completion - to OMT http://10.92.147.111/omt/doc/PM003AsBuilt.doc
- Contract Closeout
 - ✓ OOC Record Submission Checklist





Form PM-003 As-Built Project Information Worksheet (one worksheet per each route)								
Data for OMT Pavement Management System								
As-Built Project Information Worksheet (one worksheet per each route) Data for OMT Pavement Management System Contract FMIS PCA (if applicable) County Route Rnum Rsuff Direction Exit# Ramp# Limits of work (mile points preferred) BMP / Station EMP / Station TYPE OF CONSTRUCTION: (Check all that apply) New Construction Resurfacing Widening Patching Joint Seal Crack Seal Other Paving Dates: From To SHA Construction Project Engineer: Pavement Typical Sections MAINLINE RESURFACING: (Final Surface is top layer, Lane #1 is median lane) Lanes Layer Item Code Cat. Code Mix Design Thick," WIDENING NEW CONSTRUCTION RAMP OTHER Lanes Layer Item Code Cat. Code Mix Design Thick," Surface Surface Depth Thick," Surface Depth Patching: Yes No Patch Type Depth Depth Patch Type Depth								
New Construction Resurfacing Widening Patching Joint Seal Crack Seal Other								
Surface								
Surface								
Surface								
· : - - ·								
Partial Depth Patching: Yes No Patch Type Depth"								
As-Built Project Information Worksheet (one worksheet per each route) Data for OMT Pavement Management System tract								
Kemarks (changes to contract, revisions, add'l lanes, ramps, etc):								
Thank you! Contact: Mark Chapman OMT - Pavement & Geotechnical Division 443.572.5056 FAX 410.787-0486 mchapman@sha state md us	3/4/09							

SHA

Frequent Questions

- Where is the form located?
 - ✓ SHA OMT Intranet webpage http://10.92.147.111/omt/doc/PM003AsBuilt.doc
 - ✓ SHA OOC http://shaintranet/ooc/forms/OOC_Forms/PM-003.doc
 - ✓ Email or call Mark Chapman
 - mchapman@sha.state.md.us
 - 443-572-5056
- Hardcopy or Electronic?
 - ✓ Electronic preferred
- Milepoints, Stations, or GPS?
 - ✓ Milepoints preferred, (GPS in the future?)
- When should I submit the form?
 - ✓ Upon surface paving completion
 - ✓ End of construction season
 - all completed surface paving
- Send completed form to whom?
 - ✓ Mark Chapman OMT Hanover
 - 7450 Traffic Drive Hanover, MD 21076
 - mchapman@sha.state.md.us
 - Fax 410-787-0486

	A a Durite D	uniont Infor	Form PM-0						
	As-Built P			t (one worksheet per each anagement System	route)				
				•					
	XX9015177	FMIS AL7		A (if applicable)					
County A Exit#	AL Route M Ramp#	D Rnum <u>999</u>	Rsuf	f <u>BU</u> Direction All					
	work (mile points	preferred)	BMP / Station	0 EMP / Station 2	67				
TVDE OF	CONSTRUCT	ON: (Chaol: all	that amulus	_					
TYPE OF CONSTRUCTION: (Check all that apply) New Construction Resurfacing Widening Patching Joint Seal Crack Seal Other									
New Construction Resurfacing Widening Patching Joint Seal Crack Seal Other									
Paving Dates: From 09/21/2008 To 10/01/2008									
	struction Project E			10/01/2008					
Dozomone	Temical Castions								
	Typical Sections NE RESURFACI		face is top lave	r, Lane #1 is median lane)					
Lanes	Layer	Item Code	Cat. Code	Mix Design	Thick,"				
12	Surface	5001	504138	E12009H3F03F	1.25				
12	Wedge/Level	5002	504142	E13109R2C36F	.75				
-									
WIDENIN	NG ⊠, NEW CO	NSTRUCTIO	N RAMP	□. OTHER □					
Lanes	Layer	Item Code	Cat. Code	Mix Design	Thick,"				
3	Surface	5001	504138	E12009H3F03F	1.25				
3	Base	5003	504302	E13119R4C20F	6				
3	Sub-base	2004	201040		6				
3	Sub-grade	2005	201055		12				
						ns, ramps, etc.)			
SHOULD	ER: Median	Outside 🖂			_				
Lanes	Layer	Item Code	Cat. Code	Mix Design	Thick,"				
	Surface	5002	504138	E12009H3F03F	1.25				
	Wedge/Level	5001	504142	E13109R2C36F	.75				
		7							
A DDITE	NIAT ACCURATE	me.							
	NAL ACTIVIT		Covernes Mei	nline and Shoulder Depth	" 20"				
				nine and Snoulder Depth be Depth"	2.0				
Partial De	pth Patching: Y	es 🛭 No	Patch Ty	pe HMA only Depth" 4					
Pavement Markings: Striping / Restriping: Yes \(\subseteq \text{No} \) (for lanes, shoulders, turn lanes, painted medians, ramps, etc.): redline - changed HMA surface from									
		ct, revisions, ad	d'l lanes, ramps	i, etc): redline - changed I	HMA surface fro	om			
Thank you	9.5mm 8PV ! Contact	: Mark Chapman	OMT - Pavement	& Geotechnical Division 443-	572-5056	3/4/09			
, ou	<u></u>			apman@sha.state.md.us					



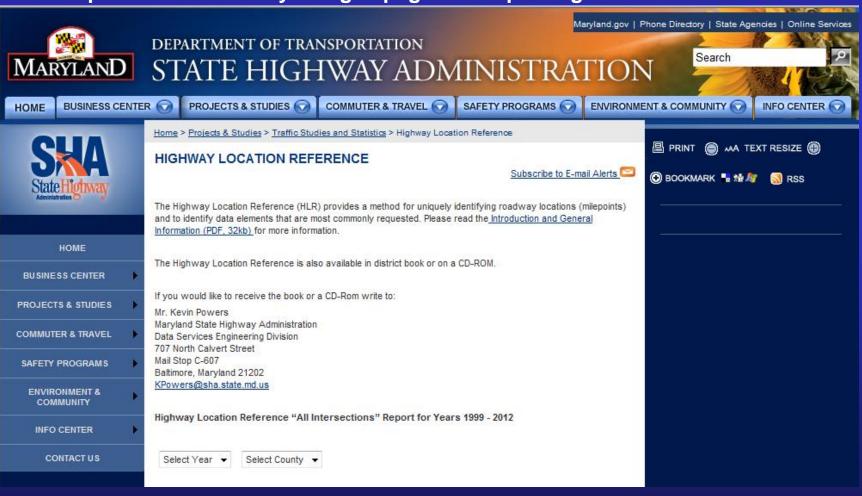
What Contracts require a PM-003?

- What contracts do I need to cover?
 - ✓ Single ad
 - ✓ Multiple ad (AT, AX, etc.)
 - ✓ Areawide (inc. XX & XY)
 - ✓ Permits (Access, Utility, etc.)
 - ✓ Traffic
 - ✓ Any project that "touches" a State owned pavement.



Milepoints

- Office of Planning and Preliminary Engineering
- http://www.roads.maryland.gov/pages/hlr.aspx?PageId=832







STATE HIGHWAY ADMINISTRATION OF MARYLAND HIGHWAY INFORMATION SERVICES DIVISION DATA SUPPORT GROUP

STATE HIGHWAY LOCATION REFERENCE

COUNTY: PRINCE GEORGE'S

PAGE: 31

							DISTRICT: 3		
							DATE: 12/31	/12	
ROUTE NUMBER:	MD 4PA CONTINU	IED							
INVENTORY DIRECTION:									
ROUTE NAME:	MARLBORO PIKE								
STATE SYSTEM	FUNCTIONAL CLASS	MEDIAN TYPE	ACCESS CONTROL	NHS	MILEPOINT	MILEPOINT DESCRIPTION	MARKEI LANES		AAD
STATE SECONDARY	R URB LOCAL	NONE (UNDIV)	NONE	NOTNHS	00.510 MD726	GREEN LANDING RD	2	200	0
					00.510 CO4025	MARLBORO PIKE (AHEAD)			
ROUTE NUMBER:	MD 4PB								
INVENTORY DIRECTION:	NORTH								
ROUTE NAME:	DOWER HOUSE RD								
STATE SYSTEM	FUNCTIONAL CLASS	MEDIAN TYPE	ACCESS CONTROL	NHS	MILEPOINT	MILEPOINT DESCRIPTION	MARKEI LANES		AAD
STATE SECONDARY	R URB LOCAL	NONE (UNDIV)	NONE	NOT NHS	00,000		1	151	0
					00.000 CO 92	DOWER HOUSE RD (BACK)			
					00,000 MD 4	PENNSYLVANIA AVE			
					00,000	TRAFFIC SIGNAL			
					00.010		2	241	
					00.030 CO5672	PENNA AVE ACCESS RD			
ROUTE NUMBER: INVENTORY DIRECTION: ROUTE NAME:	MD 5 NORTH BRANCH AVE								
STATE SYSTEM	FUNCTIONAL CLASS	MEDIAN TYPE	ACCESS CONTROL	NHS	MILEPOINT	MILEPOINT DESCRIPTION	MARKEI LANES		AAI
					00,000	CHARLES CO/L			_
					00,000	SEE US 301			
STATE PRIMARY	RUR OPA	POSITIVE BARRIER	PARTIAL	NHS	02.550		4	48I	58,2
					02.550 US301	CRAIN HWY			
					02.550	END X-REF W/ US 301			
					02.610	SPEED LIMIT 55 MPH			
					02.680 US301	CRAIN HWY			
					02.680	STRUC #16056			
					02.680 US301	CRAIN HWY (SB)			
					02.820		5	601	
					02.855		6	721	
					03.030	SPUR FR MD 373			
					03.030	SPUR TO MD 373			
	URB FRWY EXPWY				03.060				64,07
					03.060 MD373	ACCOKEEK RD			
*A,B = UNIMPROVED; C =	GRADED & DRAINED; D,E =	SOIL,GRAVEL,STONE; F,G	G = LOW TYPE BITUMINO	US				PAGE	31

H,I = HIGH TYPE BITUMINOUS; J = CONCRETE; K= BRICK; L = BLOCK